IDS/#8 JA3/22/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

MAR 1 9 2002

TECH CENTER 1600/2900

In re Application of:

Dale P. DeVore et al.

Serial No.: 09/973,332

Filed: October 9, 2001

For: LIGHT ENERGIZED TISSUE

ADHESIVE

Group Art Unit: Unassigned

Attorney Docket No. P00592-US

Examiner: Unassigned

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO 1449. To the knowledge of the undersigned, this Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits in the abovereferenced application.

Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached form.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies this document as prior art against any claim in the application and Applicants

under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of the document. Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed document, should the document be applied against the claims of the present application. Respectfully submitted, Date:

ORM PTO-1449 U.S. DEPARTMENT OF COMMERCE Modified) PATENT AND TRADEMARK OFFICE												ATTY. DOCKE P00592-US		SERIAL N 09/973,33		CENTER	AR 1 9
		1	NEC		ATIC	N D	SCI	OS	URE			APPLICANT:	Devore et a	l .		1600/2900	2002
						BY										<u>終</u>	2
			sg/s	ever	arsı	reely	ifir	nece	ssar	y)		FILING DATE	: 10/9/01	GROUP Unassign	ned	Š	
37 CFR 1.	98(b))	40				4					i			- 17		
			١	MAR	1 2 3	2002	SEE		ι	J.S. PA	TENT DOCU	MENTS					
XAMINER			X	7>		DEN			ISS		DA	TENTEE	CLASS	SUBCLASS		FILING IF APPRO	
INITIAL	1	P.	ATEN	3	MER	1	6	12	DA ² /15/		DeVore et al		530	356	1		
	4	9	6	9	9	1	2	_	/13/		Kelman et al		623	66			-
	5	1	0	4	9	5	7		1/14/		Kelman et al		527	201			
	5	1	5	6	6	1	3)/20/		Sawyer		606	213			
. — —	5	2	1	9	8	9	5		3/15/		Kelman et al		522	68			
	5	2	9	2	3	6	2		3/08/		Bass et al.		106	124			
	5	3	3	2	8	0	2	07	7/26/	/94	Kelman et a		530	356			
-	5	3	5	4	3	2	3	10)/11/	/94	Whitebook		607	89			
	5	3	5	4	3	3	6	10	0/11/	/94	Kelman et a	623	6	_ -			
	5	4	0	9	4	8	1	_	4/25 <i>i</i>		Poppas et a	606	12				
	5	4	7	6							Kelman et a	<u>l. </u>	623	6			
	5	5	4	0	6	7	7	07	7/30	/96	Sinofsky		606	8			
				FO	REI	GN	PAT	EN.	T OI	R PUBI	LISHED FOR	EIGN PATENT	APPLICAT	rion	ı —		
-						GN I			T OI	PUBL.	cou	JNTRY OR	CLAS	SUBCLASS	L.	RANSL	
				DOC	UME	NT N	υм	BER		PUBL.	COU		CLAS		YES X		ATION NO
								BER	T OI	PUBL.	COU	JNTRY OR	CLAS		YES		
			L	DOC	UME	NT N	υм	BER		PUBL. DATE 12/31	COU	JNTRY OR	CLAS		YES		
			L	DOC	UME	NT N	υм	BER		PUBL. DATE 12/31	COU	JNTRY OR	CLAS		YES		
			L	DOC	UME	NT N	υм	BER		PUBL. DATE 12/31	COU	JNTRY OR	CLAS		YES		
			L	DOC	UME	NT N	υм	BER		PUBL. DATE 12/31	COU	JNTRY OR	CLAS		YES		
			L	DOC	UME	NT N	υм	BER		PUBL. DATE 12/31	COU	JNTRY OR	CLAS		YES		
			L	DOC	UME	NT N	υм	BER		PUBL. DATE 12/31	COU	JNTRY OR	CLAS		YES		
			L	0	1	5	2 2	8	4	PUBL. DATE 12/31 /65	PATE London	UNTRY OR	CLAS	SUBCLASS	X	S	
	OTI	HER	L	DOC 0 CUM	1 MEN	5 STREET	(Inc. al.,	8 8 clud	ing ser-i	PUBL. DATE 12/31 /65 Author	PATE London r, Title, Date*	JNTRY OR	CLAS S	SUBCLASS of Publicat	YES X	***)	NO
	OTI	HER	L	DOC 0 CUM Schwe	1 MEN	TS er et an '.' S	(Incal., cier	8 8 clud	ing ser-i	PUBL. DATE 12/31 /65 Author nduced, 142-2	r, Title, Date* I alteration of 2, 1986	JNTRY OR ENT OFFICE *, Relevant Pacollagen subst	CLAS S	of Publicat	YES X tion'	***)	NO NO
	OTI	HER	L	DOC 0 0 CUM Schwe	1 MEN hobeldings see	TS er et	(Incal., cier	8 8 "Lasince,	ing ser-i 232	PUBL. DATE 12/31 /65 Author nduced, 142-2 n type	r, Title, Date* d alteration of 2, 1986	*, Relevant Pa	CLAS S s eges, Place ructure allow	of Publicate vs microsures surg med	YES X tion' gica	***) I tissue	e 5,1992
	OTI	HER	L	CUM Schwe Basen	1 MEN hobe ldingss enker 162	TS er et 22-7	(Incal., cier	8 8 Elud "Las nce, nang Forr	ing ser-i 232 ges i	PUBL. DATE 12/31 /65 Author nducec, 142-2 n type lehyde-	r, Title, Date* d alteration of 2, 1986 I collagen folks	*, Relevant Pacollagen subst	cLAS S ges, Place ructure allow ding", Lase nental lung g	of Publicate vs microsures surg med gluing", Ann	YES X tion¹ gica 1, 12	***) I tissue , 500-5	e 5,1992 urg, V
	OTI	HER	L	CUM Schwe Basen 57,	MEN hobedidings enkern, 162	TS er et 2", S t al., et at 22-7 t et a	(Inc al., cier "Ch.," 19	8 8 Last Ce, nang Form 94 "Last 199	ing ser-i 232 ges i mald	PUBL. DATE 12/31 /65 Author nducec , 142-2 n type lehyde- ssisted	r, Title, Date* d alteration of 2, 1986 I collagen folia free collagen	*, Relevant Pa collagen subst bwing laser we glue in experin	cLAS S ges, Place ructure allow ding", Lase nental lung of the me temperature	of Publicatives microsures surg medigluing", Annuature contro	YES X tion* gica 1, 12 Tho	***) I tissue, 500-5 prac Si	e 5,1992 urg, V
	OTI	HER	L	CUM Schwe Bas Ent. 57, Steme	MEN hobelding ss e nker , 162 ed, 1	TS er et a 22-7 t et a 9, 9-	(Incal., "Cler")	8 8 "Las nce, nang Form 94 "Las 199	ing ser-i 232 ges i mald er a	PUBL. DATE 12/31 /65 Author nducec, 142-2 n type lehyde- ssisted ers sur	r, Title, Date* d alteration of 2, 1986 I collagen folk free collagen vascular well welding of degree and 19, 15	*, Relevant Pa collagen subst bwing laser we glue in experinding with real to ura mater and page 152-8, 1996	cLAS S S S S S S S S S S S S S S S S S S	of Publicate vs microsures surg med gluing", Annuature controlerves: a sc	YES X tion' rgica 1, 12 1 The	, 500-5 prac Sprac	e 5,1992 urg, V surg
	OTI	HER	L	CUM Schwe Base Entropy Steme Memic Sm	MEN hobe lding ss e nker vd, 1 enov cros	TS er et al., et al., et al., et sy your open sky von V et	(Incal., cier "Chil., "19 al., tal., tal., at al., tal., tal	8 8 8 Clud "Lasnce, nance, 199 I., "Last, "Last, "Dy	ing ser-i 232 ges i mald er a 66 ase Las	PUBL. DATE 12/31 /65 Author nducee, , 142-2 n type lehyde- ssisted r tissue ers sur nhance	r, Title, Date* dalteration of 2, 1986 I collagen folkere collagen I vascular weller welding of dig med., 19, 19 d protein sold	*, Relevant Pacollagen substowing laser we glue in experinding with real titura mater and parts of the state	cLAS S S S S S S S S S S S S S S S S S S	of Publicate vs microsures surg med gluing", Annuature controlerves: a sc	YES X tion' rgica 1, 12 1 The	, 500-5 prac Sprac	e 5,1992 urg, V surg
	OTI	HER	L	CUM Schwe Base Entropy Steme Memic Sm	MEN hobe lding ss e nker vd, 1 enov cros	TS er et al., et al., et al., et sy your open sky von V et	(Incal., cier "Chil., "19 al., tal., tal., at al., tal., tal	8 8 8 Clud "Lasnce, nance, 199 I., "Last, "Last, "Dy	ing ser-i 232 ges i mald er a 66 ase Las	PUBL. DATE 12/31 /65 Author nducec, 142-2 n type lehyde- ssisted ers sur	r, Title, Date* dalteration of 2, 1986 I collagen folkere collagen I vascular weller welding of dig med., 19, 19 d protein sold	*, Relevant Pa collagen subst bwing laser we glue in experinding with real to ura mater and page 152-8, 1996	cLAS S S S S S S S S S S S S S S S S S S	of Publicate vs microsures surg med gluing", Annuature controlerves: a sc	YES X tion' rgica 1, 12 1 The	, 500-5 prac Sprac	e 5,1992 urg, V surg

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		P	ATEN	IT NU	JMBE	:R		ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE						
	5	6	3	1	2	4	3	05/20/97	Kelman et al.	514	56							
	5	6	6	2	6	4	3	09/02/97	Kung et al.	606	3							
**	5	6	6	9	9	3	4	09/23/97	Sawyer	506	213							
	5	8	4	0	8	4	8	11/24/98	Sturrock et al.	530	356							
	5	8	7	7	7	7	7	7	7	4	5	3	7	02/23/99	Kelman et al.	530	356	
	6	0	1	2	8	4	0	01/11/00	Small IV et al.	374	126							
							<u> </u>											
				<u> </u>														
	1										Į l							

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER						PUBL.	COUNTRY OR	CLAS	SUBCLASS	TRANSLATION		
							DATE	PATENT OFFICE			YES	NO	
												ļ	
	ļ		L			L							
	<u> </u>	<u> </u>				<u> </u>				ļ			
	<u> </u>		<u> </u>									 	
	<u> </u>	ļ	<u> </u>				<u> </u>					 	
 4_	ļ		ļ	ļ		<u> </u>					ļ		
 _	 		↓	<u> </u>	ļ				+			 	
 	1	<u> </u>	<u> </u>		ŀ						l	<u> </u>	

OTHER DOCUMENTS (Including Author, Title, Date**, Relevant Pages, Place of Publication***)

Tang et al., "Morphologic changes in collagen fibers after 830nm diode laser welding", Lasers surg med, 21, 438-43, 1997

Lauto., "Repair strength dependence on solder protein concentration: a study in laser tissue welding", Lasers surg med, 22, 120-5,1998

Suh et al., "Comparison of dermal and epithelial approaches to laser tissue soldering for skin flap closure", Lasers surg med, 22, 268-74, 1998

Maitz et al., "Sutureless microvascular anastomoses by a biodegradable laser-activated solid protein solder", Plastic & reconstru surg, 104, 1726-31, 1999

Lauto et al., "Two-layer film as a laser soldering biomaterial", Lasers surg med., 25, 250-6, 1999

Lobel et al., "Temperature controlled co2 laser welding of soft tissues: urinary bladder welding in different animal models (rats, rabbits, and cats)", Lasers surg med, 26, 4-12, 2000

EXAMINER

DATE CONSIDERED

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE	ATTY. DOCKET NO. P00592-US	SERIAL NO. 09/973,332	ESH C	MAR
(Modified) PATENT AND TRADEMARK OFFICE P E CO	~ R		CENTER	R 1 9
(Use several sheets if necessary)	FILING DATE: 10/9/01	GROUP Unassigned	1600/29	2002
(37 CFR 1.98(b))			9	

EXAMINER INITIAL		PATENT NUMBER						ISSUE DATE		PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	+	_											· · · · · · · · · · · · · · · · · · ·	
													· · ·	
	_										 			
	_					-		·						
		\dashv		,	┢	-			<u> </u>					
	_													
						<u> </u>		L						

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DO	CUME	ENT N	IUME	BER		PUBL.	COUNTRY OR	CLAS	SUBCLASS	TRANSLATION	
							DATE	PATENT OFFICE			YES	NO
										<u> </u>		
	1 1									<u> </u>		ļ
OTHE	R DOCU	MEN	<u>TS</u>	(Inc	ludi	ng /	Author,	<u> Fitle, Date**, Relevant Pag</u>	jes, Place	of Publicat	ion***)	
	4 1						welding:	in vivo tensile strength and	d wound h	ealing result	s", <u>Laser</u>	s surg
		med, 27, 55-65, 2000										
								stomosis with albumin solde	er and nea	ır infrared las	ers: a	
								med, 28, 50-5,2001				
								ng with biodegradable poly			surface	
								ts", <u>Lasers surg med,</u> 28, 29				
		oper <u>ed,</u> 29					solder a	nd power density for diode I	aser tissu	e soldering",	<u>Lasers s</u>	urg
								utologous plasma protein: a 336-42, 2001	a biochem	ical neutral s	older for	tissue
								ar tissue fusion using new	light-active	ated surgical	adhesive	on a
								6, 68-73 , 2001		2.54 54 g.64	~31.1001VC	J., u
	1 00							-, , -				
XAMINER			-					DATE CONSIDERED	· · ·			